Calculus Sub-Group Questions A

Calculate the total area between f(x) and the x-axis over the given x-interval. Show all work.

1. $f(x) = x^2 \ ;[-1,1]$
2. $f(x) = -2x^3 + 2 \ ; [0,1]$
3. $f(x) = -x^2 + 1 \ ; [0,2]$
4. $f(x) = x^2 - 1 \ ; [-3\ , 3]$
5. $f(x) = \frac{2}{\sqrt{x}} \ ; \ [1,4]$

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5. $f(x) = \frac{2}{\sqrt{x}} \ ; \ [1,4]$

Calculus Sub-Group Questions B

Calculate the total area between f(x) and the x-axis over the given x-interval.

1. $f(x) = 2x^2 \ ;[-1,1]$
2. $f(x) = -2x^3 + 3 \ ; [0,1]$
3. $f(x) = -x^2 + 2 \ ; [0,3]$
4. $f(x) = x^2 - 1 \ ; [-2,\ 2]$
5. $f(x) = \frac{2}{\sqrt{x}} \ ; \ [4,9]$

Calculus Sub-Group Questions B

Calculate the total area between f(x) and the x-axis over the given x-interval.

1. $f(x) = 2x^2 \ ;[-1,1]$
2. $f(x) = -2x^3 + 3 \ ; [0,1]$
3. $f(x) = -x^2 + 2 \ ; [0,3]$
4. $f(x) = x^2 - 1 \ ; [-2,\ 2]$
5. $f(x) = \frac{2}{\sqrt{x}} \ ; \ [4,9]$

Calculus Sub-Group Questions C

Calculate the total area between f(x) and the x-axis over the given x-interval.

1. $f(x) = 3x^2 \ ;[-1,1]$
2. $f(x) = -x^3 + 4 \ ; [0,1]$
3. $f(x) = -x^2 + 3 \ ; [0,5]$
4. $f(x) = x^2 - 4 \ ; [-3, 3]$
5. $f(x) = \frac{3}{\sqrt{x}} \ ; \ [4,9]$

Calculus Sub-Group Questions C

Calculate the total area between f(x) and the x-axis over the given x-interval.

1. $f(x) = 3x^2 \ ;[-1,1]$
2. $f(x) = -x^3 + 4 \ ; [0,1]$
3. $f(x) = -x^2 + 3 \ ; [0,5]$
4. $f(x) = x^2 - 4 \ ; [-3, 3]$
5. $f(x) = \frac{3}{\sqrt{x}} \ ; \ [4,9]$

Calculus Sub-Group Questions D

Calculate the total area between f(x) and the x-axis over the given x-interval.

1. $f(x) = 6x^2 \ ;[-1,1]$
2. $f(x) = -x^3 + 4 \ ; [0,2]$
3. $f(x) = -x^2 + 4 \ ; [0,5]$
4. $f(x) = x^2 - 4 \ ; [-3, 4]$
5. $f(x) = \frac{1}{2\sqrt{x}} \ ; \ [1,4]$

Calculus Sub-Group Questions D

Calculate the total area between f(x) and the x-axis over the given x-interval.

1. $f(x) = 6x^2 \ ;[-1,1]$
2. $f(x) = -x^3 + 4 \ ; [0,2]$
3. $f(x) = -x^2 + 4 \ ; [0,5]$
4. $f(x) = x^2 - 4 \ ; [-3, 4]$
5. $f(x) = \frac{1}{2\sqrt{x}} \ ; \ [1,4]$